

PROCESS FOR EXPANDABLE GRAPHITE

Patent Number: KR9406238

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Applicant(s): KOREA RESEARCH INST OF ENERGY (KR)

Requested
Patent: KR9406238

Application
Number: KR19910011799 19910711

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IPC
Classification: C01B31/04

EC
Classification:

Equivalents:

Abstract

The expansive graphite is produced by (a) adding 50-90 % sulfuric acid, 10-50 % nitric acid and 1-5 % perchloric acid to 100 wt.% kish graphite, (b) reacting the mixture at 80-250 deg.C for 2-20 min., (c) filtering, washing and drying the reactant, (d) surfact treating it with a liquid phase organic cpd. i.e. glycol cpd., ethylene cpd., epoxy resin, mobile oil or oleic acid, or a vegetable oil, and (e) heat treating it at 500-900 deg.C for 10-60 sec.. The flexible graphite is used as a packing and gasket material.

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DERWENT-ACC-NO: 1996-169621

DERWENT-WEEK: 199617

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TITLE: Method for producing expansive.
graphite - comprises addn. of perchloric-, sulphuric- and
nitric acids to kish graphite and heat treating etc.

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PATENT-ASSIGNEE: KOREA RES INST OF ENERGY &
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PRIORITY-DATA: 1991KR-0011799 (July 11, 1991)

PATENT-FAMILY:

| PUB-NO | PAGES | PUB-DATE | MAIN-IPC |
|---------------|-------------|---------------|----------|
| LANGUAGE | | | |
| KR 9406238 B1 | | July 13, 1994 | N/A |
| 000 | C01B 031/04 | | |

APPLICATION-DATA:

| PUB-NO | APPL-DESCRIPTOR | APPL-NO |
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| APPL-DATE | | |
| KR 9406238B1 | N/A | |
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INT-CL (IPC): C01B031/04

ABSTRACTED-PUB-NO: KR 9406238B

BASIC-ABSTRACT:

The expansive graphite is produced by: (a) adding 50-90% sulphuric acid, 10-50% nitric acid and 1-5% perchloric acid to 100 wt.% kish graphite; (b) reacting the mixt. at 80-250 deg.C for 2-20 mins., (c) filtering, washing and drying the

reactant; (d) surface treating it with a liq. phase organic
cpd. i.e. glycol
cpd., ethylene cpd., epoxy resin, mobile oil or oleic acid,
or a vegetable oil;
and (e) heat treating it at 500-900 deg.C for 10-60 s.

USE - The flexible graphite is used as a packing and gasket
material.

TITLE-TERMS: METHOD PRODUCE EXPAND GRAPHITE COMPRISE ADD
PERCHLORIC SULPHURIC

NITRIC ACID KISH GRAPHITE HEAT TREAT

DERWENT-CLASS: A35 E36 L02

CPI-CODES: A12-H08; A12-W12; E31-C; E31-F05; E31-H05;
E31-N02; L02-H04;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1996-053369